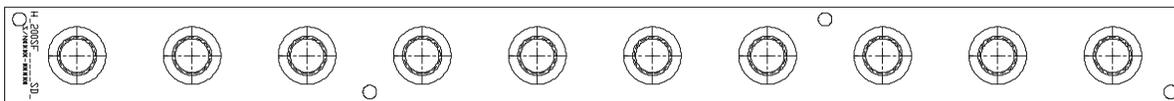
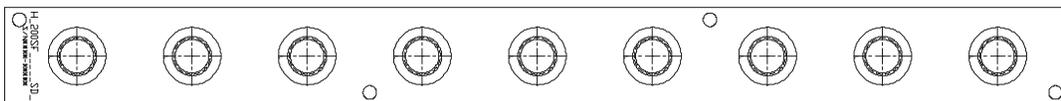
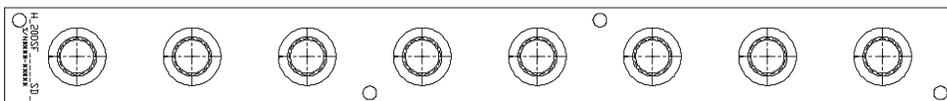
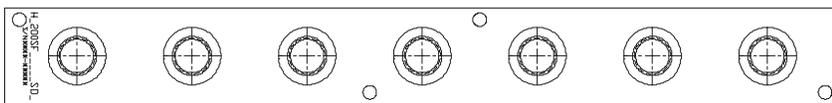
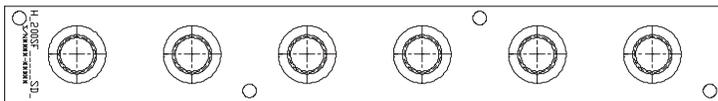
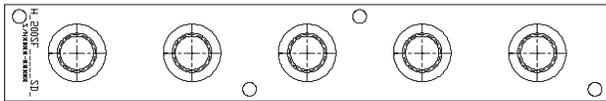
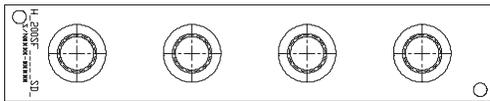
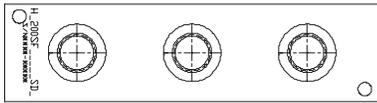
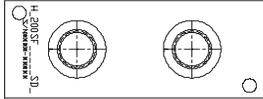
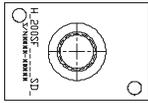


# Lynch MANIFOLDS & VALVE PACKS

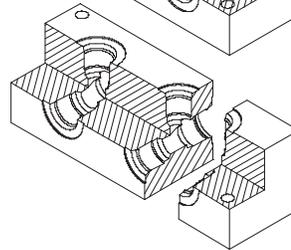
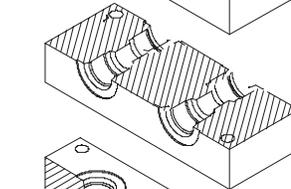
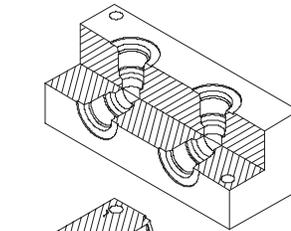
## Typical Mounting Styles and Cross Sections

HEADERS & JUNCTIONS

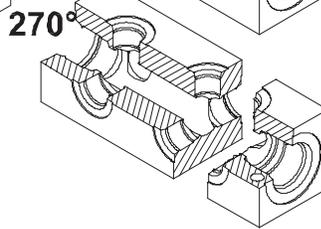
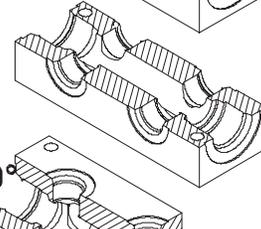
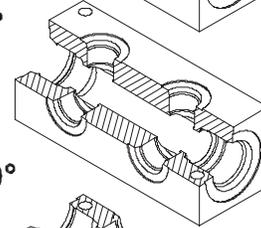
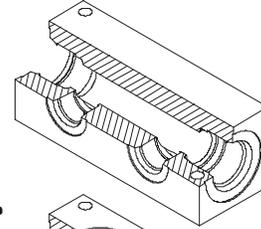
7



### JUNCTIONS



### HEADERS



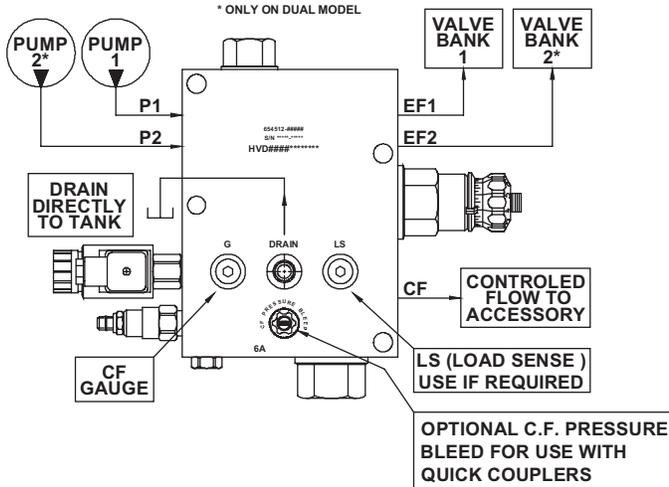
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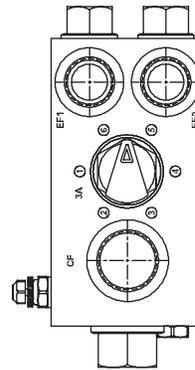
# Lynch MANIFOLDS & VALVE PACKS

## Priority Flow Controls - Hammer Valve Series

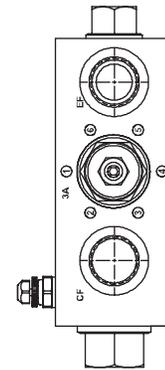
TYPICAL TOP VIEW WITH CALIBRATED HANDKNOB ADJUSTMENT



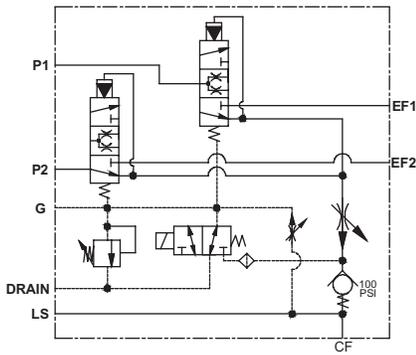
TYPICAL FRONT VIEW OF DUAL INLET MODEL WITH 6-POSITION DETENTED HANDKNOB



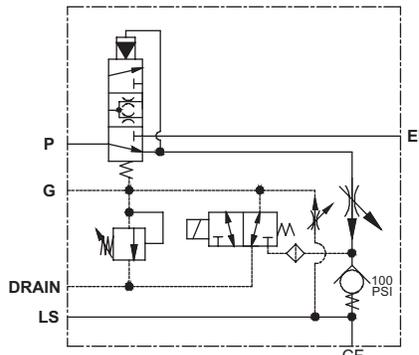
TYPICAL FRONT VIEW OF SINGLE INLET MODEL WITH STANDARD SCREW ADJUSTMENT



TYPICAL SCHEMATIC FOR DUAL PUMP INPUT PRIORITY FLOW CONTROLS



TYPICAL SCHEMATIC FOR SINGLE PUMP INPUT PRIORITY FLOW CONTROLS



APPLICATION NOTES:

- 1) MAX INPUTS AS NOTED PER MODEL
- 2) MAX CF FLOW = 70% OF RATED INPUT OR 70% OF COMBINED INPUTS ON DUAL PUMP MODELS
- 3) CONTACT FACTORY FOR MODELS WITH CF FLOWS RATED UP TO 85% OF INPUT FLOW
- 4) BYPASS FLOW CAN BE PRESSURIZED HIGHER THAN THE CONTROLLED FLOW AND STILL MAINTAIN THE REGULATED FLOW AND PRESSURE SETTINGS.
- 5) CONTACT FACTORY FOR CUSTOM MODELS WITH AUXILLARY CONTROL FUNCTIONS INCORPORATED IN THE DESIGN
- 6) DUCTILE BODY ALLOWS PRESSURES TO 5000 PSI

VALVE PACKS & CUSTOMS

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PART NUMBER SYSTEM

Dual 65 GPM w/ High Flow Needle, 4500PSI & 24Vdc Coil w/ Connector: HVD2065A1WHIN24B

TYPE	MATERIAL	MODEL	CIRCUIT CODE	PRESSURE RANGE	FLOW CONTROL OPTIONS	SEALS	VOLTAGE	CONNECTOR OPTIONS
HV Hammer Valve	D Ductile Iron	1015	A0	500 to 4500 PSI	L* Needle w/ Standard Screw Adj	N Buna	11 110 Vac	2 DIN Coil Only No Connector
			A1					
2015	D Ductile Iron	2015	A0	500 to 6000 PSI	H* Needle w/ Calibrated Handknob	N Buna	24 24 Vdc	B DIN Coil with Std Connector (PG11)
			A1					
1035	D Ductile Iron	1035	A0	500 to 3000 PSI	L* Needle w/ Standard Screw Adj	N Buna	11 110 Vac	D DIN Coil with Connector Connector w/ LED (PG11)
			A1					
2035	D Ductile Iron	2035	A0	500 to 4500 PSI	L* Needle w/ Standard Screw Adj	N Buna	11 110 Vac	2 DIN Coil Only No Connector
			A1					

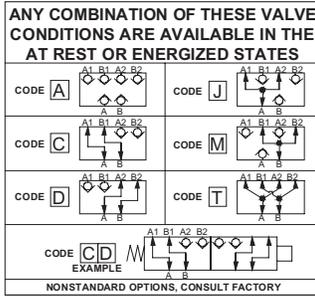
\* Code varies with Model - Contact Factory  
\*\* Available on certain Models - Contact Factory

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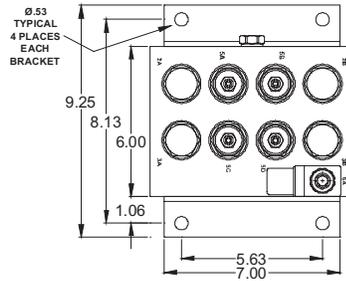
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## Selector Valves: Three, Six & Eight-Way



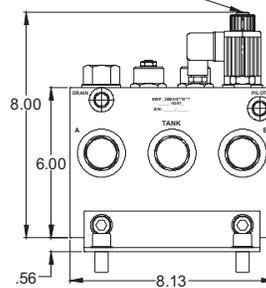
STANDARD 60 GPM SIX-WAY SELECTOR WITH RELIEFS AND ANTI-CAVS SHOWN BELOW:



**APPLICATION NOTES:**

- 1) ALL PORTS CAN BE PRESSURIZED UP TO 3000 PSI FOR ALUMINUM AND 5000 PSI FOR DUCTILE IRON.
- 2) MAXIMUM LEAKAGE IS 5 DROPS PER MINUTE.
- 3) SHIFTING OF VALVE IS NOT AFFECTED BY PRESSURE DIFFERENTIAL IN WORKING LINES.
- 4) A SEPARATE CONNECTION TO TANK FOR THE DRAIN IS RECOMMENDED. ALSO A 300 PSI MINIMUM HYDRAULIC PRESSURE DIFFERENTIAL BETWEEN THE PILOT & DRAIN MUST BE MAINTAINED FOR PROPER OPERATION.
- 5) BACK PRESSURE IN THE TANK LINE IS ADDITIVE TO THE RELIEF VALVES BY UP TO 5.5 TIMES THE VALVE SETTING.
- 6) RELIEF ADJUSTMENT RANGES UP TO 6000PSI.
- 7) TURN SCREW CLOCKWISE TO REDUCE SETTING.

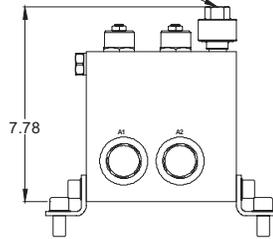
VIEW OF ELECTRICALLY ACTUATED MODEL WITH DIN CONNECTOR



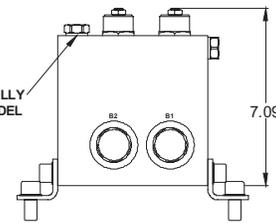
WORKING LINES = SAE 16  
DRAIN, PILOT, & TP = SAE 6

CONSULT FACTORY FOR ALTERNATE PORT OPTIONS.

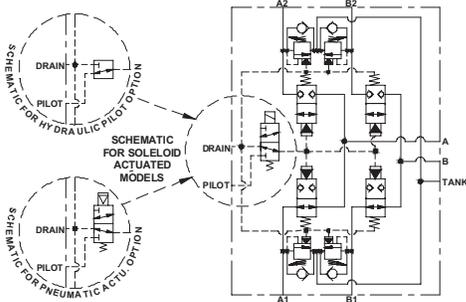
VIEW OF PNEUMATICALLY ACTUATED MODEL (1/8" NPTF)



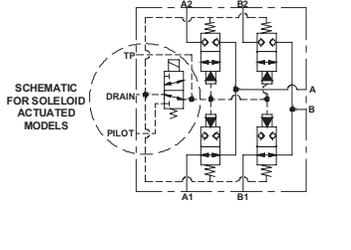
VIEW OF HYDRAULICALLY PILOTED MODEL



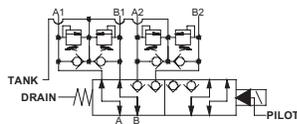
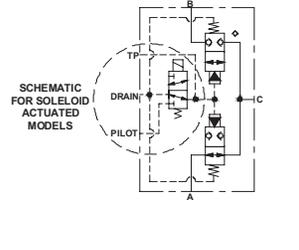
DETAILED SCHEMATIC



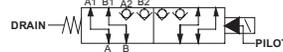
DETAILED SCHEMATIC



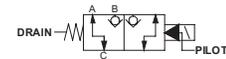
DETAILED SCHEMATIC



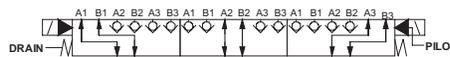
CODE CD  
STANDARD 6-WAY WITH RELIEFS & ANTI-CAV SCHEMATIC



CODE CD  
STANDARD 6-WAY SCHEMATIC



CODE CD  
STANDARD 3-WAY SCHEMATIC



CODE CDE  
STANDARD 8-WAY SCHEMATIC

**REQUEST BY MODEL NUMBER**

NOMINAL FLOW RATE	BASIC MODEL NUMBER				
	3-WAY SELECTOR	3-WAY SELECTOR with RELIEF & ANTI-CAV	6-WAY SELECTOR	6-WAY SELECTOR with RELIEF & ANTI-CAV	8-WAY SELECTOR
15 GPM	3WP*1A	3WP*1B	6WP*1A	6WP*1B	8WP*1A
30 GPM	3W9*2A	3WP*1B	6W9*2A	6WP*1B	8W9*2A
60 GPM	3WP*3A	3WP*1B	6WP*3A	6WP*1B	8WP*3A
120 GPM	3WP*4A	3WP*1B	6WP*4A	6WP*1B	8WP*4A
240 GPM	Contact Factory	Contact Factory	Contact Factory	Contact Factory	Contact Factory

\* = "A" for Aluminum Manifold or "D" for Ductile Iron Manifold

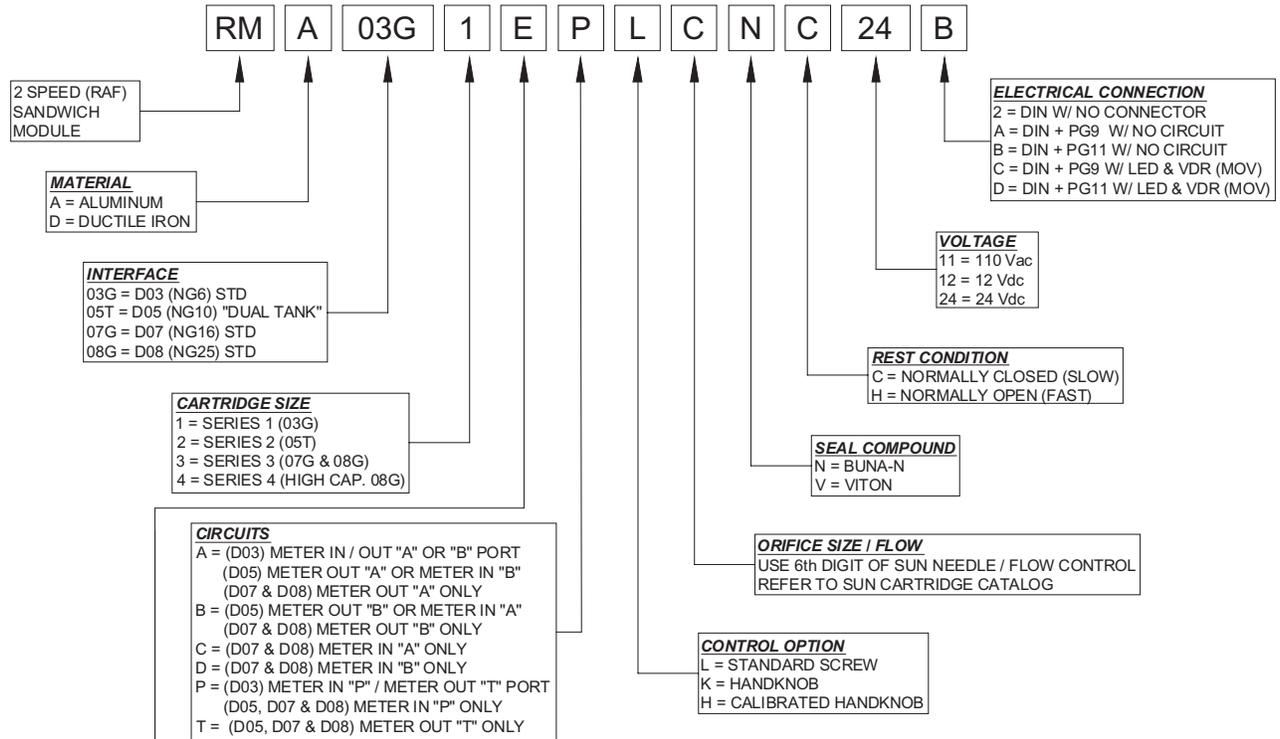
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VALVE PACKS & CUSTOMS

## Two-Speed Sandwich Module P/N System



	NFFA D03 "NG6" ----> CODE 03G		NFFA D05 "NG10" ----> CODE 05T		NFFA D07 "NG16" ----> CODE 07G				NFFA D08 "NG25" ----> CODE 08G						
	METER IN/P	METER OUT/T	METER IN/P	METER OUT/T	METER IN/P	METER OUT/T	METER IN/A	METER IN/B	METER OUT/A	METER OUT/B	METER IN/P	METER OUT/T	METER IN/A	METER IN/B	METER OUT/A
2 WAY - NEEDLE & CHECK	A														
	B														
2 WAY & NEEDLE	C								C						
					D						D				
2 WAY & P.C. FLOW CONTROL W/ CHECK	E														
	F														
	G								G						
					H						H				
	N														
	O														
	P								P						
					Q						Q				

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# Lynch MANIFOLDS & VALVE PACKS

## Two-Speed Line Mounted Module P/N System

RL A SH 3 H 3 K E N C 11 D

2 SPEED (RAF)  
LINE MOUNTED

**MATERIAL**  
A = ALUMINUM  
D = DUCTILE IRON

**PORT SIZES**

NB = 1/4" NPTF	BB = 1/4" BSPP
NC = 3/8" NPTF	BC = 3/8" BSPP
ND = 1/2" NPTF	BD = 1/2" BSPP
NF = 3/4" NPTF	BF = 3/4" BSPP
NH = 1" NPTF	BH = 1" BSPP
NI = 1 1/4" NPTF	BI = 1 1/4" BSPP
SB = SAE 4	1H = 1" CODE 61
SC = SAE 6	1I = 1 1/4" CODE 61
SD = SAE 8	1J = 1.5" CODE 61
SE = SAE 10	1K = 2" CODE 61
SF = SAE 12	2H = 1" CODE 62
SH = SAE 16	2I = 1 1/4" CODE 62
SI = SAE 20	2J = 1.5" CODE 62
	2K = 2" CODE 62

\*METRIC PORTS CONTACT FACTORY

**CARTRIDGE SIZE**

1 = SERIES 1 (1/4" & 3/8" NPTF) (-6 & -8 SAE)  
 2 = SERIES 2 (3/8", 1/2", 3/4" NPTF) (-8, -10 & -12 SAE)  
 3 = SERIES 3 (3/4", 1", 1 1/4" NPTF) (-12, -16 & -20 SAE)  
 (1" & 1 1/4" CODE 61 OR 62)  
 4 = SERIES 4 (3/4", 1", 1 1/4" NPTF) (-12, -16 & -20 SAE)  
 (1 1/4", 1 1/2" & 2" CODE 61 OR 62)

**ELECTRICAL CONNECTION**  
 2 = DIN W/ NO CONNECTOR  
 A = DIN + PG9 W/ NO CIRCUIT  
 B = DIN + PG11 W/ NO CIRCUIT  
 C = DIN + PG9 W/ LED & VDR (MOV)  
 D = DIN + PG11 W/ LED & VDR (MOV)

**VOLTAGE**  
 11 = 110 Vac  
 12 = 12 Vdc  
 24 = 24 Vdc  
 23 = 230 Vac

**REST CONDITION**  
 C = NORMALLY CLOSED (SLOW)  
 H = NORMALLY OPEN (FAST)

**SEAL COMPOUND**  
 N = BUNA-N  
 V = VITON

**ORIFICE SIZE / FLOW**  
 USE 6th DIGIT OF SUN NEEDLE / FLOW CONTROL  
 REFER TO SUN CARTRIDGE CATALOG

**CONTROL OPTION**  
 L = STANDARD SCREW  
 K = HANDKNOB  
 H = CALIBRATED HANDKNOB

**CIRCUITS**  
 3 = IN LINE BODY (CARTRIDGES NOSE TO SIDE, SERIES 1, 2 & 3)  
 4 = IN LINE BODY (CARTRIDGES NOSE TO NOSE, SERIES 4 ONLY)

**CIRCUITS OPTIONS**

	NPT										SAE - ORB						BSPP				CD 61		CD 62						
	NB 1/4"	NC 3/8"	ND 1/2"	NF 3/4"	NH 1"	NI 1 1/4"	SB-4	SC-6	SD-8	SE-10	SF-12	SH-16	SI-20	BB 1/4"	BC 3/8"	BD 1/2"	BF 3/4"	BH 1"	BI 1 1/4"	1H 1"	1I 1 1/4"	1J 1 1/2"	1K 2"	2H 1"	2I 1 1/4"	2J 1 1/2"	2K 2"		
NEEDLE & F.F. CHECK	A							A						A															
	B							B						B															
	C																												
NEEDLE ONLY	D																												
	E							E						E															
	F							F						F															
P.C. FLOW CONTROL & CHECK	H																												
	G							G						G															
	N							N						N															
NEEDLE & F.F. CHECK	O							O						O															
	P																												
	Q																												

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